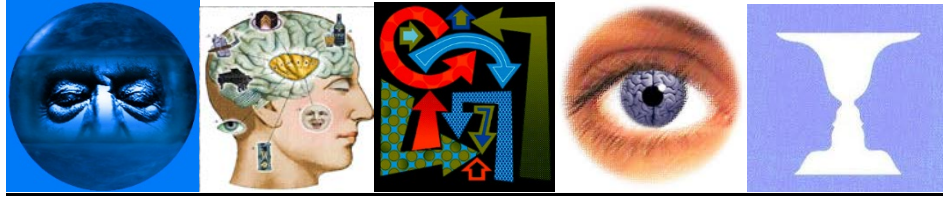


2014 Spring Course Offerings
Cognitive Science
Director: Professor Pat O'Seaghda



COGS 007-10 Introduction to Cognitive Science, (4 credits) (SS)

T, TR, 2:35 p.m. - 3:50 p.m.

What is a mind? How is the mind related to the brain? Could we make an artificial mind? Issues concerning knowledge representation and intelligence in minds and computers as investigated by psychologists, philosophers, linguists, neuroscientists, and researchers in artificial intelligence.

Professor Malt

COGS 161-10 Supervised Research, (2-4 credits) (ND)

Research under the direct supervision of a faculty member in the cognitive science program. Students must arrange the particular project with a faculty member before enrolling. Prerequisite: consent of the program director.

Professor O'Seaghda

PSYC, COGS 176-10 Mind and Brain, (4 credits) (NS)

W, F, 11:10 a.m. - 12:25 p.m.

Perception and cognitive neuroscience as the link between mental processes and their biological bases. Visual and auditory perception; the control of action; neuropsychological syndromes of perception, language, memory, and thought; neural network (connectionist) models of mental processes.

Prerequisite: PSYC 1 or COGS 7. May not be taken pass/fail.

Professor Arrington

COGS 301-10 Senior Project in Cognitive Science: Proposal, (3 credits)

Senior year integration of the material from cognitive science begins with the proposal of a substantial review or research project spanning at least two cognitive science disciplines under the direction of a Cognitive Science faculty member. Prerequisite: consent of program director.

Professor O'Seaghda

COGS, CSE 327-10 Artificial Intelligence Theory and Practice, (3 credits)

T, TR, 9:20 a.m. - 10:35 a.m.

Introduction to the field of artificial intelligence: Problem solving, knowledge representation, reasoning, planning and machine learning. Use of AI systems or languages. Advanced topics such as natural language processing, vision, robotics, and uncertainty. Prerequisite: CSE 17 or CSE 18

Professor Heflin

COGS 361-10 Independent Research, (2-4 credits)

Independent research in cognitive science with a faculty advisor. Students must arrange the particular project with a faculty advisor before enrolling.

Prerequisite: consent of the program director.

Professor O'Seaghda

COGS 399-10 Senior Project in Cognitive Science: Thesis, (3 credits)

Research during senior year culminating in senior thesis advised by a member of the Cognitive Science faculty. Execution and written report of project proposed and approved in COGS 301. Theses submitted for honors will be evaluated by a committee of at least three cognitive science faculty.

Prerequisite: COGS 301 and consent of the program director.

Professor O'Seaghda

COGS 405-10 Individual Study in Cognitive Science, (1-6 credits)

Study of a topic not covered in regular course offerings. By arrangement with a consulting faculty member. May be repeated for credit. Prerequisite: Consent of the program director.

Professor O'Seaghda

Collateral Requirements

CSE 002 Fundamentals of Programming CRN 18005 (2 credits) (ND) Professor Chen; M/W/F 11:10 - 12:00

MATH 021 Calculus (4 credits, multiple CRNs)..... Various day and time offerings

Artificial Intelligence and Formal Models

CSE 017 Programming & Data Structures CRN 11252 (3 credits) (ND, MA) Professor Heflin; M/W/F 10:10 - 11:00

CSE 017 Programming & Data Structures CRN 18304 (3 credits) (ND, MA) Professor Kalafut; M/W/F 11:10 - 12:00

CSE/MATH 261 Discrete Structures CRN 11260 (3 credits) (HU) Professor Huang; T/TH 2:35 - 3:50

CSE 262 Programming Languages CRN 11261 (3 credits) (ND) Professor Tan; M/W/F 9:10 - 10:00

CSE 326 Pattern Recognition CRN 18016 (3 credits) (ND) Professor Baird; T/TH 9:20 - 10:35

PHIL 114 Symbolic Logic CRN 16551 (4 credits) (MA) Professor Yaqub; T/TH 2:35 - 3:50

Language, Culture and Meaning

PHIL 220 Theory of Knowledge CRN 17667 (4 credits) (HU) Professor Bearn; T/TH 2:35 - 3:50

PSYC 320 Psychology of Language CRN 18451 (4 credits) () Professor Malt; T/TH 10:45 - 12:00

PSYC/GS 365 Human Devl Cross-Cultr Persp CRN 18454 (4 credits) () Professor Nicolopoulou; T/TH 10:45 - 12:00

Cognition and Neuroscience

BIOS 121 Comp/Integ Bio for BIOS Minors CRN 17406 (3 credits) (NS) Professor Itzkowitz; M/W/F 9:10 - 10:00

BIOS 277 Experimental Neuroscience Lab CRN 16474 (2 credits) (NS) Professor Swann; M/W 1:10 - 4:00

PSYCH 369 Memory Under Construction CRN 18001 (4 credits) (NS) Professor O'Seaghda; M/W 12:45 - 2:00

Graduate Minor and Certificate Courses

CSE 426 Pattern Recognition CRN 18017 (3 credits) (HD) Professor Baird; T/TH 9:20 - 10:35

CSE 447 Data Mining CRN 18771 (3 credits) (HD) Professor Lopresti; T/TH 10:45 - 12:00

PSYC 403 Cognitive Psych CRN 18459 (3 credits) (ND) Professor O'Seaghda; T 1:10 - 4:00

PSYC 476 Seminar in Cognition CRN 17369 (3 credits) (ND) Professor Marsh; W 4:10 - 7:00

CSE 326 Pattern Recognition CRN 18016 (3 credits) (ND) Professor Baird; T/TH 9:20 - 10:35

CSE 327 Artificial Intellence Theory and Practice CRN 11263 (3 credits)..... Professor Heflin; T/TH 9:20 - 10:35

CSE 347 Data Mining CRN 18770 (3 credits) (HD) Professor Lopresti; T/TH 10:45 - 12:00

PSYC 320 Psychology of Language CRN 18451 (4 credits) () Professor Malt; T/TH 10:45 - 12:00

PSYC 365 Human Devl Cross-Cultr Persp CRN 18454 (4 credits) () Professor Nicolopoulou; T/TH 10:45 - 12:00

PSYCH 369 Memory Under Construction CRN 18001 (4 credits) (NS) Professor O'Seaghda; M/W 12:45 - 2:00